

### Claims

1. A quick connector coupling for forming a joint in a fluid line system comprising:  
a female connector body having slots formed therethrough, and a through bore extending  
from an end of said connector body;

5 a male member extending through said end of said connector body and into said bore,  
said male member having a tubular surface and an annular upset, said upset having a diameter  
greater than the diameter of said tubular surface;

a primary retainer coupled to said connector body, said primary retainer including a cross  
member and two spaced legs extending from said cross member and through said slots, said legs  
10 in abutting relationship with said male member upset, said legs in a locked position in which said  
legs are spaced apart a distance less than the diameter of said upset;

a secondary latch/verifier coupled to said connector body, said secondary latch/verifier  
including two fingers, each finger having a portion positioned laterally outward of one of said  
legs.

15 2. The coupling as claimed in claim 1 wherein said legs are approximately  
perpendicular to the axis of said bore when viewed from the side.

3. The coupling as claimed in claim 1 wherein said fingers are approximately  
20 perpendicular to the axis of said bore when viewed from the side.

4. The coupling as claimed in claim 1 wherein said fingers are able to be positioned  
laterally outward of one of said legs only if the legs are in the locked position.

6. The coupling as claimed in claim 1 wherein said secondary latch/verifier further includes a beam in axial abutting relationship with said male member upset.

5 7. The coupling as claimed in claim 6 wherein the radially inner surface of said beam abuts the radially outer surface of said upset if the male member has not been sufficiently inserted into the connector body.

8. The coupling as claimed in claim 6 wherein said beam is movable to the axial  
10 abutting relationship with said male member upset only if the male member has been sufficiently inserted into the connector body.

9. The coupling as claimed in claim 1 wherein said secondary latch/verifier further includes a rim, said rim axially positions said secondary latch/verifier relative to said connector  
15 body.

10. The coupling as claimed in claim 1 wherein said legs movable from said locked position to a released position in which said legs are spaced apart a distance greater than said upset diameter if the fingers of said secondary latch/verifier are not positioned laterally outward  
20 of said legs.

11. A coupling as claimed in claim 10 wherein said primary retainer further includes a release being cooperable with said connector body to move said retainer beams from said locked position to said release position.

5 12. The coupling as claimed in claim 1 wherein said fingers prevent said legs from moving from said locked position to a released position in which said legs are spaced apart a distance greater than said upset.

13. A quick connector coupling for forming a joint in a fluid line system comprising:  
10 a female connector body having slots formed therethrough, and a through bore extending from an end of said connector body;

a male member extending through said end of said connector body and into said bore, said male member having a tubular surface and an annular upset, said upset having a diameter greater than the diameter of said tubular surface;

15 a primary retainer coupled to said connector body, said primary retainer including a cross member and two spaced legs extending from said cross member and through said slots, said legs in abutting relationship with said male member upset, said legs in a locked position in which said legs are spaced apart a distance less than the diameter of said upset, said legs are approximately perpendicular to the axis of the bore when viewed from the side;

20 a secondary latch/verifier coupled to said connector body, said secondary latch/verifier including a beam in abutting relationship with said male member upset.

14. The coupling as claimed in claim 13 wherein the radially inner surface of said beam abuts the radially outer surface of said upset if the male member has not been sufficiently inserted into the connector body.

5 15. The coupling as claimed in claim 13 wherein said beam is movable to the axial abutting relationship with said male member upset only if the male member has been sufficiently inserted into the connector body.

10 16. The coupling as claimed in claim 13 wherein said secondary latch/verifier further includes a rim, said rim axially positions said secondary latch/verifier relative to said connector body.